Teacher: Michelle Allen March 25, 2017

**Kindergarten Lesson Plan**

**Subject: Sustainability Professional Development Workshop**

**Topic: Making Recycled Paper**

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| **Purpose/Objectives**  Children will learn have opportunities to engage in hands-on exploration of how to make recycled paper. Children will be able to observe and take notice of how taking something old to make something new reduces the amount of trash when recycled. |
| **Overview**  Children have learned that paper is made from trees.  In this lesson children will:   * Observe various types of paper with a magnifying lens. * Sort paper trash. * Use various steps involved in recycling wastepaper by making their own recycled paper in the classroom. * Discuss how “closing the loop” benefits the environment and people. |
| **Standards**  [CCSS.ELA-LITERACY.RI.K.1](http://www.corestandards.org/ELA-Literacy/RI/K/1/) With prompting and support, ask and answer questions about key details in a text.  [CCSS.ELA-LITERACY.RI.K.2](http://www.corestandards.org/ELA-Literacy/RI/K/2/) With prompting and support, identify the main topic and retell key details of a text.  **Scope & Sequence**  Matter has properties that can be observed through the senses. (3.1b)  Objects and/or materials can be sorted or classified according to their properties (3.1f). |
| **C:\Users\Michelle\Desktop\Sustainability lessons\613XVZjAM-L._AC_US218_.jpgMaterials**  Pre-Activity Book: *Be a Friend to Trees* by Patricia Lauber describes the fact that trees are cut and their wood pulp is used to make paper.   * Sample of various paper - chipboard [cereal box], made from recycled fibers; magazine (coated with clay), newsprint, white office paper, construction paper, magnifying lens   Activity   * Paper from trash, blender, measuring cup, water, window screens, bins, felt, procedure of “How to Make Recycled Paper”. |
| **Pre-Activity Questions & Engagement**  Read*Be a Friend to Trees*   * What material is most paper made? * What are some other ways plants are important? They provide food and shelter to wildlife; people use wood from trees for lumber to build houses and furniture? * What can we use fewer of or avoid being wasteful?   Provide samples of pieces of paper made from recycled fibers and from nonrecycled fibers   * Distribute magnifying lenses. * Have children examine the various types of paper with their magnifying lenses to identify similarities and differences.   Discuss   * What do you see when you look at the paper through a magnifying glass? *Bits of stuff; fibers.* * What differences did you see between paper made with recycled fibers and nonrecycled fibers? *You can see the recycled pieces in the recycled paper.* * How do you know if something is made from recycled materials? *It says so on the box*. |
| **Procedure**  During project time the children will have opportunities to choose paper making as a center for exploration work in the rotation of 2 small groups.   * Group 1: Tear paper into small pieces * Group 2: Add paper and water to blender and press pulp through frame   Set a copy of “Steps to Make Recycled Paper” next to blender. Over the course of several weeks during project time, children from the first two groups can teach how to make a recycled sheet of paper. They should follow the directions on “Steps to Make Recycled Paper.” |
| **Assessment**  Teachers will observe and record interactions and conversations between children while in small group as they follow multi-step directions to make paper as the primary source of authentic assessment. Children’s finished work product can be used as work sample. |

**HOW-TO MAKE PAPER**

1. RIP PAPER FROM REYCLE BIN



1. ADD PAPER TO BLENDER
2. ADD 2 CUPS WATER
3. PUSH ON
4. COUNT TO 20 **1 2 3 4 5 6 7 8 9 10**

**11 12 13 14 15 16 17 18 19 20**



1. PUSH DOWN
2. POUR PULP ON SCREEN
3. ADD FELT AND PUSH



1. FLIP OVER
2. DRY